

Serial No. **10/825,368**
Reply to Office Action dated April 9, 2007

Docket No. **P-0672**

AMENDMENTS TO THE DRAWINGS:

The attached drawing includes changes to Fig. 5. This sheet, which includes Fig. 5, replaces the original sheet including Fig. 5. The annotated sheet shows the changes made.

Attachment: Replacement Sheet
Annotated Sheet Showing Changes

REMARKS

Claims 1-8 and 11-20 are pending in this application. By this Amendment, the specification, the Abstract, FIG. 5 and claims 1, 2, 4-6, 8, 11 and 13 are amended and new claims 14-20 are added. Various amendments are made for clarity and are unrelated to issues of patentability.

The Office Action rejects claim 10 under 35 U.S.C. §112, second paragraph. By this Amendment, dependent claim 10 is canceled. Similar types of features that satisfy 35 U.S.C. §112, second paragraph are provided in each of the independent claims.

The Office Action objects to the Abstract. It is respectfully submitted that the Substitute Abstract obviate the grounds for objection.

The Office Action rejects claims 1-13 under 35 U.S.C. §102(b) by U.S. Patent 6,246,385 to Kinoshita et al. (hereafter Kinoshita). The rejection is respectfully traversed with respect to the pending claims.

Independent claim 1 recites a scan driving circuit for applying scan pulses to both ends of each scan line of the flat display panel, a first data driving circuit for applying data pulses to odd numbered data lines among data lines of the flat display panel, and a second data driving circuit for applying data pulses to even numbered data lines of the data lines.

Kinoshita does not teach or suggest all the features of independent claim 1. More specifically, Kinoshita discloses a liquid crystal panel having 2N scanning lines arranged in a horizontal direction, and M signal lines disposed in a vertical direction. Kinoshita also discloses

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that the scanning lines are driven simultaneously at both ends by using scanning line left drive circuit 17A and scanning line right drive circuit 17B. Drive pulses are sequentially applied to the scanning lines at addresses X1 to X2N to turn on individual scanning lines. Necessary voltage pulses are simultaneously applied to the signal lines at addresses Y1 to YM to control each pixel. See Kinoshita's Abstract and FIG. 1 showing signal lines 10 and 11 only extending into a center area of the panel.

The Office Action (on page 4) cites Kinoshita's col. 1, lines 50-60, col. 3, lines 45-55 and FIGs. 1 and 49. However, FIG. 49 as discussed in col. 1, lines 50-60 and col. 3, lines 45-55 does not teach or suggest a scan driving circuit for applying scan pulses to both ends of each scan line. FIG. 1, on the other hand, utilizes signal lines 10, 11 that do not extend across the entire panel 14.

Kinoshita does not teach or suggest a first data driving circuit for applying data pulses to odd numbered data lines among data lines of the flat display panel and a second data driving circuit for applying data pulses to even numbered data lines of the data lines, as recited in independent claim 1. Thus, Kinoshita does not teach or suggest all the features of independent claim 1. Independent claim 1 therefore defines patentable subject matter.

Independent claim 5 recites a first scan driving circuit for applying scan pulses to one side of each scan line of the flat display panel, and a second scan driving circuit for applying the scan pulses to the other side of each scan line. Independent claim 5 also recites a first data driving circuit for applying data pulses to odd numbered data lines among data lines of the flat display

panel, and a second data driving circuit for applying data pulses to even numbered data lines of the data lines.

Independent claim 11 recites applying scan pulses to both ends of each scan line of the flat display panel, applying data pulses to odd numbered data lines among data lines of the flat display panel, and applying data pulses to even numbered data lines of the data lines.

For at least similar reasons as set forth above, Kinoshita does not teach or suggest all the features of each of independent claims 5 and 11. Thus, each of independent claims 5 and 11 defines patentable subject matter.

Each of the dependent claims depends from one of the independent claims and therefore defines patentable subject matter at least for this reason. In addition, the dependent claims recite features that further and independently distinguish over the applied references.

CONCLUSION

In view of the foregoing, it is respectfully submitted that the application is in condition for allowance. Favorable consideration and prompt allowance of claims 1-8 and 11-20 are earnestly solicited. If the Examiner believes that any additional changes would place the application in better condition for allowance, the Examiner is invited to contact the undersigned attorney at the telephone number listed below.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this,

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concurrent and future replies, including extension of time fees, to Deposit Account 16-0607 and please credit any excess fees to such deposit account.

Respectfully submitted,
KED & ASSOCIATES, LLP



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Attachments: Replacement Sheet
Annotated Sheet
Substitute Abstract

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Date: June 29, 2007

Please direct all correspondence to Customer Number 34610

FIG. 5

